

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/04233

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01J61/20 H01J61/72 H01J61/35 C03C3/076 C03C4/20  
H01J61/42

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 667 070 A (BRITISH THOMSON HOUSTON CO LTD) 27 February 1952 (1952-02-27)	1-5,8,9
Y	page 1, lines 80,81 page 3, lines 18-38	6,7,22
X	US 2 419 902 A (MAGER ERIC L) 29 April 1947 (1947-04-29) column 1, lines 28-34	1-5,8,9
X	US 2 965 789 A (EUGENE LEMMERS) 20 December 1960 (1960-12-20) column 3, lines 27-37	1-5,8,9
X	US 2 973 447 A (AICHER JOHN O ET AL) 28 February 1961 (1961-02-28) column 1, lines 56-68	1-5,8,9
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the International filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search

12 April 2005

Date of mailing of the international search report

24 06. 2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 916 645 A (JOHN SALO ET AL) 8 December 1959 (1959-12-08) column 3, lines 22-33 -----	1-5,8,9
X	US 2 915 664 A (EUGENE LEMMERS) 1 December 1959 (1959-12-01) column 4, line 74 - column 5, line 15 -----	1-5,8,9
X	US 3 013 169 A (FRANCIS BITTER ET AL) 12 December 1961 (1961-12-12) column 1, lines 10,11 column 5, lines 6-14 column 5, lines 40-43 claim 3 -----	1-5
X	GB 857 711 A (GEN ELECTRIC) 4 January 1961 (1961-01-04) page 2, lines 63-76 -----	1-5
X	US 2 671 184 A (CARL KENTY) 2 March 1954 (1954-03-02) claim 1 -----	1-5
X	US 3 526 804 A (MOREHEAD CHALMERS ET AL) 1 September 1970 (1970-09-01) column 1, lines 57-65 -----	1-5
X	US 2 714 681 A (KEIFFER RAYMOND L ET AL) 2 August 1955 (1955-08-02) column 2, lines 56-68 -----	1-5
Y	WO 01/67486 A (KONINKL PHILIPS ELECTRONICS NV) 13 September 2001 (2001-09-13) abstract page 1, lines 23-28 page 4, lines 22-28 figures 1,2 -----	6
Y	US 6 362 570 B1 (CHANDLER ROBERT ET AL) 26 March 2002 (2002-03-26) abstract figures 1a,4 -----	7
Y	WO 01/71770 A (KONINKL PHILIPS ELECTRONICS NV) 27 September 2001 (2001-09-27) page 6, line 34 - page 7, line 1 figure 1 -----	22
E	WO 03/085695 A (SNIJKERS-HENDRICKX INGRID J M ; BLASIG ROLAND (DE); KRIJNEN SIMON (NL)) 16 October 2003 (2003-10-16) the whole document -----	1-9,22
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	<p>WO 03/105185 A (HENDRIX JOHAN L V ; DE  GROOT JOSEPHUS J (NL) ; GIELEN JOHANNES W A  M (N) 18 December 2003 (2003-12-18)  claims 19-22</p> <p style="text-align: center;">-----</p>	1-4

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## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-9, 22

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9,22

A discharge lamp with a low pressure of mercury vapour

1.1. claims: 1-5,8,9

A low pressure mercury vapour discharge lamp with a particular low Hg content.

1.2. claim: 6

A low pressure mercury vapour discharge lamp with an electrode shield

1.3. claim: 7

An electrodeless discharge lamp

1.4. claim: 22

A compact fluorescent lamp with an additional and capped housing

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2. claims: 10-15,20-21

A discharge lamp with a protective coating; A discharge lamp with a luminescent layer on the outside of the discharge vessel

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3. claims: 16-19

A discharge lamp with a particular lead-free glass envelope

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/04233

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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